

CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

Employer Id : E71456

Employer : The Boeing Company

Worksite : The Boeing Company -
Frederickson

Street : 18001 Se Canyon Rd E

Jurisdiction : Unincorporated Pierce County

Survey Date : 11/18/2013

SAMPLING

Survey Type : Online

Response Rate : 53%

Drive Alone & One-Way VMT Rates at this Worksite

Drive Alone : 92.8%

One-Way VMT per employee : 16.9

Employees and Survey Response Information

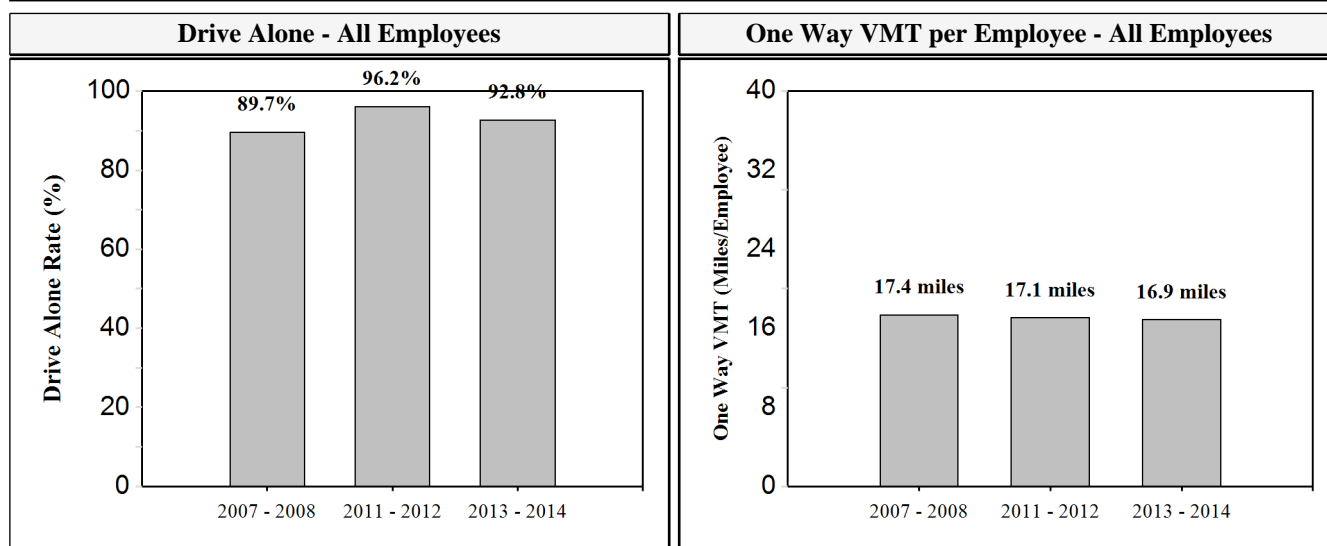
Reported Total Employees at Worksite: 1,644

Surveys Distributed : 1,232

Surveys Returned : 653

Surveys Returned by CTR Affected Employees : 341

Total Estimated CTR - Affected Employees at Worksite : 643



Site History and Goal

Cycle	Drive Alone - All	Drive Alone - CTR Affected	VMT / Employee - All	VMT / Employee - CTR Affected
2007 - 2008	89.7%	89.5%	17.4	16.7
2009 - 2010	87.7%	87.7%	17.3	17.3
2011 - 2012	96.2%	98.2%	17.1	18.2
2013 - 2014	92.8%	94.4%	16.9	16.9
2015 - 2016	N/A	N/A	N/A	N/A
2017 - 2018	N/A	N/A	N/A	N/A
2019 - 2020	N/A	N/A	N/A	N/A
Goal	TBD	TBD	TBD	TBD
Percent Change	3.5%	5.5%	-2.9%	1.2%

Comparison Between Rates With and Without Fill-In

The survey response rate is indicated on Page 1. To encourage a response rate of at least 70%, additional drive alone trips are added to survey results for worksites with a response rate of less than 70%. For these worksites it is assumed that non-responding employees between the actual response rate and 70% drive alone 5 days a week. These additional trips represent the "Fill-In" applied. Note that fill-in is not applied to a worksite's first survey in the 2007 to 2012 cycle (their baseline survey).

	2007 - 2008	2011 - 2012	2011 - 2012 Without Fill In	2013 - 2014	2013 - 2014 Without Fill In
Drive Alone - All Employees*	89.7%	96.2%	90.2%	92.8%	92.8%
Drive Alone - CTR Affected Employees*	89.5%	98.2%	93.2%	94.4%	94.4%
VMT/Employee - All Employees	17.4	17.1	16.5	16.9	16.9
VMT/Employees - CTR Affected Employees	16.7	18.2	17.5	16.9	16.9

* Drive alone rate includes one person motorcycles.

GHG Emissions: Total for Drive Alone, Carpools, Vanpools

Annual Greenhouse Gas Emissions (Metric Tons CO₂e) for Roundtrip Commute*

Value	2007 - 2008	2011 - 2012	2013 - 2014
Emissions for Surveyed Employees	4,401	933	2,622
Estimated Emissions for Total Employment	6,775	6,175	6,601

* Estimated based on VMT from commuters driving alone, carpooling, vanpooling, or motorcycling, without fill-in applied.

Bus Transit Passenger Miles and Rail Transit Passenger Miles*

Annual Transit Passenger Miles (includes Roundtrip Commute)	2007 - 2008	2011 - 2012	2013 - 2014
Bus Annual Passenger Miles - Estimated for Total Employment	34,640	0	23,917
Bus Annual Passenger Miles - Surveyed Employees	22,500	0	9,500
Ferry Annual Passenger Miles - Estimated for Total Employment	0	0	32,729
Ferry Annual Passenger Miles - Surveyed Employees	0	0	13,000
Train/Light Rail/Streetcar Annual Passenger Miles - Estimated for Total Employment	770	0	0
Train/Light Rail/Streetcar Annual Passenger Miles - Surveyed Employees	500	0	0

* Transit passenger miles can be used to gauge changes in transit usage, and also to calculate greenhouse gas emissions from transit commute trips. However, emissions attributable to transit vary widely, depending on the efficiency/energy source of transit vehicles and transit vehicle passenger load (typically ranging from 0.1 to 0.9 pounds CO₂e emissions/passenger mile). Employers are strongly encouraged to contact their local transit agencies for more precise information on GHG emissions for their transit trips. If nothing else is available, the value of 0.47 pounds (0.00021 metric tons) per passenger mile can be used to estimate CO₂e emissions for bus transit, and 0.39 pounds (0.00018 metric tons) CO₂e emissions per passenger mile for train/light rail/streetcar.

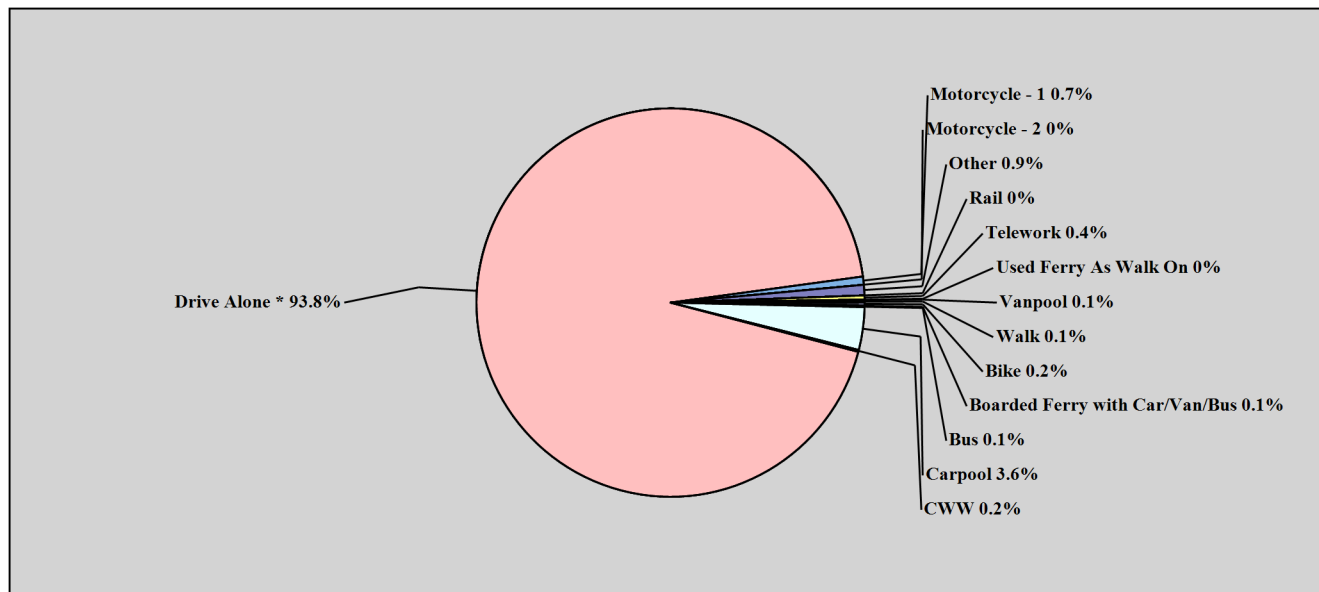
Q3.

One way, how many miles do you commute from home to your usual work location?
Average one-way distance home to work: 17.7 miles

Commute Trips By Mode - All Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



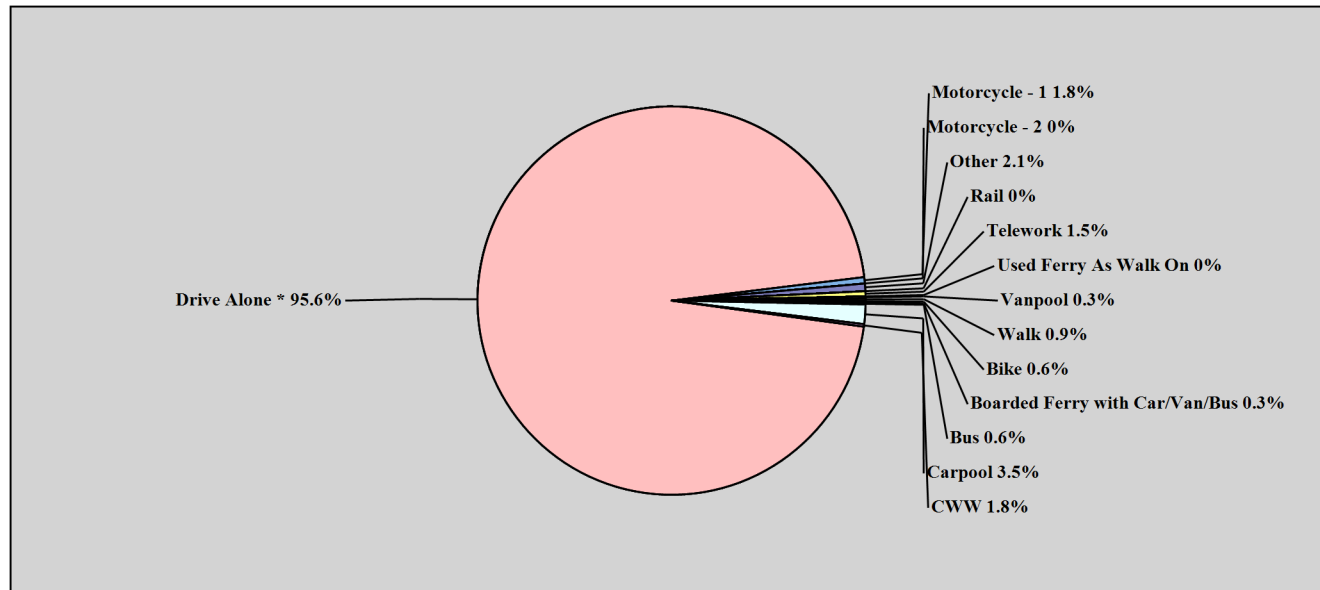
Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone *	4,279	93.8%	96.9%	612	93.7%	93.7%
Carpool	162	3.6%	2.3%	34	5.2%	8.4%
Vanpool	5	0.1%	0.0%	1	0.2%	0.0%
Motorcycle - 1	31	0.7%	0.2%	11	1.7%	2.1%
Motorcycle - 2	0	0.0%	0.0%	0	0.0%	0.0%
Bus	3	0.1%	0.0%	2	0.3%	0.0%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	10	0.2%	0.0%	4	0.6%	0.4%
Walk	6	0.1%	0.1%	4	0.6%	0.4%
Telework	16	0.4%	0.3%	7	1.1%	3.4%
CWW	7	0.2%	0.0%	7	1.1%	0.8%
Boarded Ferry with Car/Van/Bus	4	0.1%	0.0%	2	0.3%	0.0%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	40	0.9%	0.1%	12	1.8%	1.3%

* Drive alone mode includes fill-in, where applicable.

Commute Trips By Mode - Affected Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - Affected Employees



Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone *	2,730	95.9%	98.5%	326	95.6%	96.2%
Carpool	46	1.6%	0.7%	12	3.5%	3.8%
Vanpool	5	0.2%	0.0%	1	0.3%	0.0%
Motorcycle - 1	15	0.5%	0.2%	6	1.8%	3.8%
Motorcycle - 2	0	0.0%	0.0%	0	0.0%	0.0%
Bus	3	0.1%	0.0%	2	0.6%	0.0%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	4	0.1%	0.1%	2	0.6%	0.8%
Walk	5	0.2%	0.1%	3	0.9%	0.8%
Telework	12	0.4%	0.3%	5	1.5%	4.5%
CWW	6	0.2%	0.0%	6	1.8%	0.8%
Boarded Ferry with Car/Van/Bus	2	0.1%	0.0%	1	0.3%	0.0%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	18	0.6%	0.1%	7	2.1%	0.8%

* Drive alone mode includes fill-in, where applicable.

Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
0 Day	584	89%	653	100%
1 Days	16	2%	69	11%
2 Days	13	2%	53	8%
3 Days	3	0%	40	6%
4 Days	4	1%	37	6%
5 Days	22	3%	33	5%
6 or More Days	11	2%	11	2%

Work Schedules By Group - All Employees (This table shows the relationship between work schedule and commute mode)

Employees who worked:	Drive Alone 5 days / week		Drive Alone 3 or 4 days / week		Used Bus At Least 3 days / week		Carpooled At Least 3 days / week		Used Rail At Least 3 days / week		Vanpooled At Least 3 times / week		Biked or Walked At Least 3 Days / week		Used 'Other' Modes At Least 3 Days / week		Used Non-Drive Alone At Least 3 Days / week	
5 days a week	388	66%	23	3.9%	0	0%	27	4.6%	0	0%	1	0.2%	2	0.3%	3	0.5%	37	6.3%
4 days a week (4/10s)	0	0%	11	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
3 days a week	0	0%	2	66.7%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
9 days in 2 weeks (9/80)	10	62.5%	6	37.5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
7 days in 2 weeks	1	11.1%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Other	4	18.2%	0	0%	0	0%	1	4.5%	0	0%	0	0%	0	0%	2	9.1%	3	13.6%

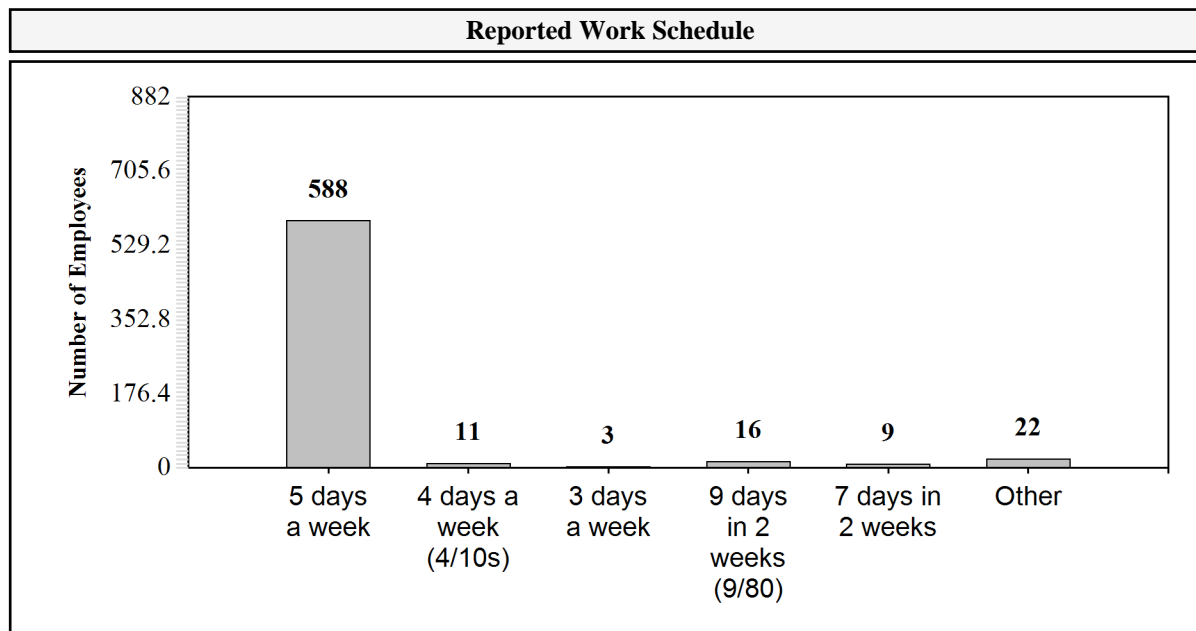
Count by Occupancy of Carpools, Vanpools, and Motorcycles

Q.4b If you used a carpool or vanpool as part of your commute, or if you ride a motorcycle, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
1	Motorcycle	33
2	Motorcycle	0
2	Carpool	142
3	Carpool	15
4	Carpool	5
5	Carpool	0
>5	Carpool	0
<5	Vanpool	0
5	Vanpool	0
6	Vanpool	0
7	Vanpool	0
8	Vanpool	0
9	Vanpool	5
10	Vanpool	0
11	Vanpool	0
12	Vanpool	0
13	Vanpool	0
14	Vanpool	0
15	Vanpool	0

Reported Work Schedule - All Employees

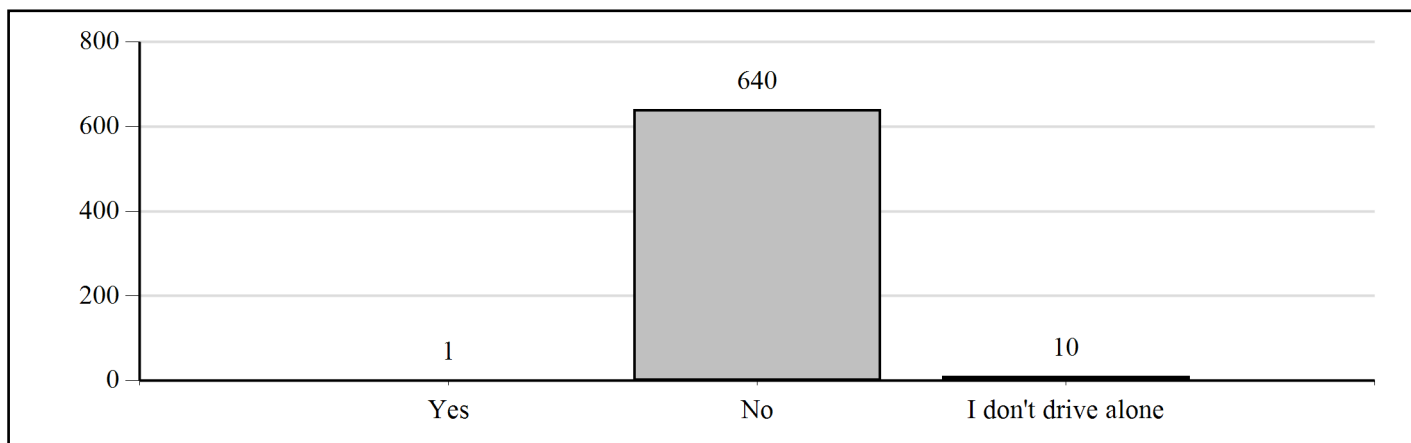
Q.5 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	588	90.6%
4 days a week (4/10s)	11	1.7%
3 days a week	3	0.5%
9 days in 2 weeks (9/80)	16	2.5%
7 days in 2 weeks	9	1.4%
Other	22	3.4%

Parking and Telework

Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)



Q.10: How many days do you typically telework?

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	2	0.3%
I don't telework	599	91.7%
Occasionally, on an as-needed basis	45	6.9%
1-2 days/month	1	0.2%
1 day/week	3	0.5%
2 days/week	2	0.3%
3 days/week	1	0.2%

Reasons for driving alone to work/not driving alone to work

Q11. When you do not drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
Other	187	20.3%
To save money	185	20.1%
Financial incentives for carpooling, bicycling or walking.	107	11.6%
To save time using the HOV lane	89	9.7%
Personal health or well-being	76	8.3%
Environmental and community benefits	66	7.2%
Driving myself is not an option	48	5.2%
Free or subsidized bus, train, vanpool pass or fare benefit	43	4.7%
Emergency ride home is provided	39	4.2%
I have the option of teleworking	37	4.0%
Preferred/reserved carpool/vanpool parking is provided	19	2.1%
Cost of parking or lack of parking	18	2.0%
I receive a financial incentive for giving up my parking space	6	0.7%

Q12. When you drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
I like the convenience of having my car	393	27.6%
My commute distance is too short	266	18.7%
Riding the bus or train is inconvenient or takes too long	216	15.2%
Other	155	10.9%
Family care or similar obligations	145	10.2%
Bicycling or walking isn't safe	127	8.9%
My job requires me to use my car for work	66	4.6%
I need more information on alternative modes	49	3.4%
There isn't any secure or covered bicycle parking	7	0.5%

Employee Transit Use - All Employees

Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	0	0	0	2	0	1	7	0	2	5
2	0	0	1	0	0	0	2	0	4	1
3	0	0	1	2	0	1	2	1	2	0
4	0	0	0	0	0	1	0	0	0	0
5	0	0	0	0	0	0	0	0	0	2
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11 or more	0	0	0	0	0	0	0	0	0	0
# Of Employees using Transit	0	0	2	4	0	3	11	1	8	10
Total One-Way Transit Trips Per Week	0	0	5	8	0	8	17	3	16	32

Employee Transit Use - Affected Employees

Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	0	0	0	2	0	1	5	0	1	2
2	0	0	1	0	0	0	1	0	3	1
3	0	0	1	2	0	1	2	1	1	0
4	0	0	0	0	0	1	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11 or more	0	0	0	0	0	0	0	0	0	0
# Of Employees using Transit	0	0	2	4	0	3	8	1	5	4
Total One-Way Transit Trips Per Week	0	0	5	8	0	8	13	3	10	9

Commute Mode By ZipCode for All Employees

Q8. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0.15%	0	0	0	0	0	0	0	0	0	0	0	0	0
98001	4	0.61%	20	0	0	0	0	0	0	0	0	0	0	0	0
98002	9	1.38%	45	0	0	0	0	0	0	0	2	0	0	0	2
98003	10	1.53%	52	2	0	0	0	0	0	0	0	0	0	0	0
98004	1	0.15%	4	0	0	0	0	0	0	0	0	0	0	0	0
98006	1	0.15%	5	0	0	0	2	0	0	0	0	0	0	0	0
98010	3	0.46%	14	0	0	3	0	0	0	0	0	0	0	0	0
98021	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98022	15	2.30%	79	0	0	0	0	0	0	0	1	1	0	0	0
98023	6	0.92%	34	0	0	0	0	0	0	0	0	0	0	0	0
98029	2	0.31%	3	5	0	0	0	0	0	0	1	0	0	0	0
98030	6	0.92%	27	5	0	0	0	0	0	0	0	1	0	0	0
98031	5	0.77%	22	7	0	0	0	0	0	0	0	0	0	0	0
98032	4	0.61%	22	0	0	0	0	0	0	0	0	0	0	0	0
98036	1	0.15%	7	0	0	0	0	0	0	0	0	0	0	0	0
98038	2	0.31%	10	0	0	0	0	0	0	0	0	0	0	0	0
98042	10	1.53%	48	5	0	0	0	0	0	0	0	0	0	0	0
98047	4	0.61%	21	0	0	0	0	0	0	0	0	0	0	0	0
98051	2	0.31%	11	0	0	0	0	0	0	0	0	0	0	0	0
98055	2	0.31%	12	0	0	0	0	0	0	0	0	0	0	0	0
98059	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98065	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98072	2	0.31%	9	0	0	0	0	0	0	0	0	0	0	0	0
98075	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98087	2	0.31%	12	0	0	0	0	0	0	0	0	0	0	0	0



98092	16	2.45%	84	8	0	0	0	0	0	0	0	0	0	0	0
98106	1	0.15%	5	0	0	0	0	0	0	0	0	0	2	0	0
98108	1	0.15%	7	0	0	0	0	0	0	0	0	0	0	0	0
98118	2	0.31%	4	7	0	0	0	0	0	0	0	0	0	0	0
98146	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98168	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98188	1	0.15%	7	0	0	0	0	0	0	0	0	0	0	0	0
98198	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98296	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98304	2	0.31%	10	0	0	0	0	0	0	0	0	0	0	0	0
98312	1	0.15%	7	0	0	0	0	0	0	0	0	0	0	0	0
98321	15	2.30%	75	2	0	0	0	0	0	0	0	2	0	0	0
98327	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98328	20	3.06%	91	10	0	4	0	0	0	0	0	0	0	0	7
98332	4	0.61%	17	5	0	0	0	0	0	0	0	0	0	0	0
98335	4	0.61%	15	5	0	0	0	0	0	0	0	0	0	0	0
98338	78	11.94%	398	17	0	4	1	0	0	0	4	0	0	0	10
98349	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98354	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98355	2	0.31%	12	0	0	0	0	0	0	0	0	0	0	0	0
98360	14	2.14%	63	8	0	0	0	0	0	0	2	0	0	0	1
98366	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98367	3	0.46%	14	0	0	0	0	0	0	0	0	0	0	0	0
98371	15	2.30%	74	0	0	0	0	0	0	0	0	1	0	0	6
98372	17	2.60%	85	5	0	0	0	0	0	0	0	0	0	0	0
98373	32	4.90%	170	0	0	1	0	0	0	0	0	0	0	0	1
98374	42	6.43%	208	12	0	0	0	0	0	0	5	0	0	0	1
98375	47	7.20%	217	9	0	1	0	0	4	4	0	0	0	0	5
98385	2	0.31%	9	0	0	0	0	0	0	0	0	0	0	0	0
98387	54	8.27%	255	7	5	11	0	0	2	0	0	0	2	0	0
98388	1	0.15%	6	0	0	0	0	0	0	0	0	0	0	0	0
98390	5	0.77%	27	0	0	0	0	0	0	0	0	0	0	0	0
98391	31	4.75%	158	5	0	0	0	0	0	0	0	2	0	0	0
98394	1	0.15%	3	0	0	0	0	0	0	0	0	0	0	0	0
98396	2	0.31%	12	0	0	0	0	0	0	0	0	0	0	0	0
98404	5	0.77%	24	0	0	0	0	0	0	0	0	0	0	0	0
98405	2	0.31%	10	0	0	0	0	0	0	0	0	0	0	0	0



98406	6	0.92%	37	0	0	0	0	0	0	0	0	0	0	0	0
98407	4	0.61%	20	0	0	0	0	0	0	0	0	0	0	0	0
98408	3	0.46%	17	2	0	0	0	0	0	0	0	0	0	0	0
98409	4	0.61%	15	4	0	0	0	0	0	0	0	0	0	0	0
98418	1	0.15%	6	0	0	0	0	0	0	0	0	0	0	0	0
98422	3	0.46%	10	0	0	0	0	0	0	0	0	0	0	0	7
98424	2	0.31%	9	0	0	0	0	0	2	1	0	0	0	0	0
98443	3	0.46%	10	7	0	0	0	0	0	0	0	0	0	0	0
98444	11	1.68%	61	0	0	0	0	0	0	0	0	0	0	0	0
98445	19	2.91%	100	0	0	2	0	0	0	0	0	0	0	0	0
98446	8	1.23%	32	5	0	0	0	0	2	1	1	0	0	0	0
98448	1	0.15%	7	0	0	0	0	0	0	0	0	0	0	0	0
98465	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98466	2	0.31%	10	0	0	0	0	0	0	0	0	0	0	0	0
98467	6	0.92%	34	0	0	0	0	0	0	0	0	0	0	0	0
98498	4	0.61%	22	0	0	2	0	0	0	0	0	0	0	0	0
98499	2	0.31%	12	0	0	0	0	0	0	0	0	0	0	0	0
98503	3	0.46%	17	0	0	0	0	0	0	0	0	0	0	0	0
98512	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98513	7	1.07%	39	0	0	0	0	0	0	0	0	0	0	0	0
98516	3	0.46%	17	0	0	0	0	0	0	0	0	0	0	0	0
98564	1	0.15%	7	0	0	0	0	0	0	0	0	0	0	0	0
98569	2	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98570	1	0.15%	4	0	0	0	0	0	0	0	0	0	0	0	0
98576	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98579	1	0.15%	5	0	0	0	0	0	0	0	0	0	0	0	0
98580	17	2.60%	76	15	0	5	0	0	0	0	0	0	0	0	0
98597	11	1.68%	56	5	0	0	0	0	0	0	0	0	0	0	0